

cited in the European Search  
Report of EP 99 10 9356.8  
Your Ref.: 7027E

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 07453497A

(43) Date of publication of application: 16 . 06 . 95

(51) Int. Cl.  
H01M 10/44  
H02J 7/02  
H02J 7/04

(21) Application number: 05302481

(71) Applicant: NEC CORP

(22) Date of filing: 02 . 12 . 93

(72) Inventor: SUGIYAMA AKIHIRO

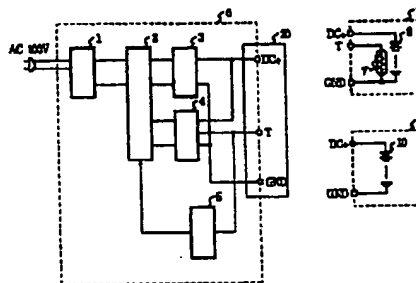
(54) BATTERY CHARGER FOR COPING WITH  
MULTIPLE KINDS OF BATTERIES

(57) Abstract:

**PURPOSE:** To provide a battery charger capable of coping with multiple kind of batteries such as a nickel-cadmium battery, a nickel hydrogen battery, and a lithium secondary battery.

**CONSTITUTION:** This battery charger is constituted of a power circuit 1, a charge control switching circuit 2, a charge control circuit 3 for a lithium secondary battery, a charge control circuit 4 for a nickel-cadmium battery and a nickel hydrogen battery, and a temperature detection confirming circuit 5. The temperature detection confirming circuit 5 detects the presence of a temperature detecting element 7 in a battery pack, and a proper charge control system is determined when the charge control switching circuit 2 selects one of the charge control circuits 3, 4 based on it. Multiple kinds of batteries can be charged by the same battery charger, and the width of the battery selection can be widened with the same device.

COPYRIGHT: (C)1995,JPO



RECEIVED  
SEP 22 2000  
TECHNOLOGY CENTER 2800